



National Lighting Partner Meeting
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ENERGY STAR[®]
Quality Assurance Testing Program

What is the QA Testing Program?



- Manufacturer-financed, EPA enforced annual testing of ENERGY STAR qualified residential light fixtures
- New in ENERGY STAR RLF specification v4.0

Why a QA Testing Program?



- Program Integrity
- Sunset of PEARL Program
- New Technologies
- Rapid Product Development

Basics



- Effective October 1, 2005 (when EPA can start to require testing)
- EPA will nominate fixtures-with input
 - No more than two (2) fixtures will be tested from any given manufacturer per year
 - Up to three samples of each fixture are tested as necessary.
- Laboratory purchases the fixture and bills the manufacturer
- Testing to be conducted at a manufacturer-independent NVLAP accredited testing lab
- Laboratory sends EPA the results
- Fixtures that fail are subject to delisting

The Process



- EPA selects the platform and specific fixtures to be tested
- EPA notifies manufacturer via writing
- Manufacturer commissions the lab and is responsible for payment to the lab
- Lab procures 3 samples of each fixture on the open market (if possible)
 - First sample used for initial testing. The second and third samples will be tested as necessary
- Lab provides test results to EPA and the manufacturer
- The list of selected fixtures and test report details are kept confidential
- Process may be modified based on early experience

What is Tested



- Performance Parameters
 - Efficacy
 - Lamp Start Time
 - Correlated Color Temperature
 - Color Rendering Index
 - Lamp Base Type
 - Lumen Maintenance
 - Maximum Ballast Operating Case Temperature
- Consumer Informational Parameters
 - Product Packaging
 - Lamp labeling information as written on the lamp or lamp base (manufacturer designation that encompasses the lamp manufacturer name, wattage, correlated color temperature, and color rendering index)

Evaluating Results and Additional Testing



- **If all performance parameters are met**, the second and third sample will not be tested.
- **If the first sample fails one of the consumer informational parameters**, EPA will contact the manufacturer to resolve the failure.
- **If the first sample fails one of the performance parameters**, the second and third samples will be tested for all of the performance parameters.
- **If the second and third samples need to be tested**, testing needs to be completed within 240 days of failure of the first sample.
- **If two or three samples fail to meet the same performance parameter** of the ENERGY STAR specification, the product will be addressed under EPA's delisting protocol.

Schedule



- EPA will select fixtures on an annual basis starting October 1, 2005.
- Initial testing must commence within 30 days of EPA notification to the manufacturer. Testing on the first sample must be completed within 270 days of initial notification by EPA.
- If the second and third samples need to be tested, testing needs to be completed within 240 days of failure of the first sample.
- All testing is to be conducted at a manufacturer-independent NVLAP accredited testing lab.